MECHANICS TO HOLD SMOKER NEXT WEEK

M. E. Society To Welcome New Men Of Courses II and X Next Wednesday.

On Wednesday evening, Oct. 22 at 8.00, the members of the Mechanical Engineering Society will hold a smoker at the Union as a reception to the members of Courses II and X, the purpose of which will be to start a "pull together" spirit among all the members particularly interested in Mechanical Engineering, and to foster a feeling of good fellowship amongst present and future members.

It is hoped that, more than in the past, the second and third year men will avail themselves of the opportunity to be helped in their future work by this society, and they are particularly invited to be present at this meeting so that they may get an idea of the advantages to be gained through such an organization.

The program for the evening will be announced later, but it is certain that there will be some good talks by members of the Mechanical Engineering faculty and others.

The following officers were elected at the meeting in the Union last Saturday.

2. Secretary: H. Wu.
3. President: H. Yuan.

Junior Ballots Ready

The ballots for the Junior Class elections have been printed and may be seen on the bulletin board. They must be returned October 21st, but the ballots of those who have paid their class dues before that date will be void.

ANNUAL FALL HANDICAP MEET NEXT SATURDAY

Freshmen-Sophomore Sprint Events Centre of Present Interest.

Next Saturday the Annual Fall Handicap Meet will be held at Tech Field at Brookline. This meet is of especial interest as it affords the first opportunity to compare the freshmen with the others, especially the Sophomores. From the shows here made it will be possible to judge the probable results of the Field Day relay race.

The meet is an especial boon to the newer men for the more experienced men will be back near the scratch line. This advantage should help balance up the different abilities of the close finishers, and will feature the day. So far not many upper-classmen have come out and the real struggle will be between the two lower classes.

There will be a Cross-Country Run at Melrose next Saturday, and for this reason the longer distance events will probably be omitted from the program of the meet.

Today the Cross-Country candidates will leave Back Bay at 4.07 for a trip over the regular Tech course which starts at Highland and ends at the Field.

RECEPTION AT UNION

Catholic Club Gives Dinner and Reception to Tech Men.

This evening at the Union the Catholic Club will hold a reception and dinner to all those interested in its work. The Catholic members of the Class of 1917 are especially invited to attend. Dean Burton and Father Scanlan, the spiritual director, will talk about the Club.

The-on purpose of the business meeting following dinner, will be to elect representatives from the Class of 1915 and also from the entering Class of 1917 to the executive board. Tickets may be obtained from any of the officers at 25 cents.

SHOW ORCHESTRA HOLDS TRY-OUTS

Frank L. Series To Be Conductor At This Year's Show Performance.

Yesterday the Tech Show orchestra had try-outs at the Union. Many of last year's men were back, including L. J. Miller, D. L. Patton, C. M. Fiske, H. L. Foster, S. M. Ellisworth, L. A. Holmes, and R. Welles. Besides this there were some new men out, although there were not as many as there probably would have been had the weather been less inclement.

The new men who are out and trying for positions are A. Tomiy, W. F. Prichard, S. L. Chiholm, L. J. Daner, O. Smith, and E. Freeman. The try-outs will be continued next Tuesday, and the management desires all candidates to come and bring their instruments.

This year the orchestra will participate in half a dozen concerts in addition to the regular Tech Show. As regards the latter this year, the orchestra will have a Student Conductor, Frank L. Series, who has led the orchestra in Williams College for two years, during which time four shows were staged. He has done a great deal of professional orchestra work, and wrote some music for last year's show. Besides this he was of great material aid in the orchestration of last year's show, and is an accomplished musician, playing several different instruments with great skill.

Hereafter rehearsals will come every Tuesday at 5 o'clock.

WEATHER

Pair, with brisk westerly winds.

CALENDAR

Wednesday, October 15, 1913.
4.00-1917 Relay Practice at Field.
4.00-1917 Football Practice at Field.
4.00-1917 Tag-of-War, practice at Gym.
4.00-1916 Relay, practice at Field.
4.00-1916 Football, practice at Oval.
4.00-1916 Tag-of-War, practice at Gym.
4.00-Cross Country—Back Bay Station.
5.00-Sophomore Class Ballots—Cage.
5.00-Cosmopolitan Club—Union.
5.00-Glee Club—Union.
6.00-Catholic Club Reception—Union.

Thursday, October 16, 1913.
1.30-1.10—T. C. A. Talks—Union.
2.00—Electrical Engineering Trip—Lincoln Tower House—Boston Elevated—Leave Lowell Buildings.

The Sophomore and Freshmen came out on Columbus Day. How about Field Day?

The editorial contest is about to start.

CATHOLIC CLUB MEETING TONIGHT 6.00 P. M.
WRESTLING TEAM
GYM FOR PRACTICE

Excellent Showings Made By Men-Morse '16 Elected Assistant Manager.

In an effort to make an even better team than that of last year, the Wrestling Team has practiced every day at the Gym for the past two weeks. Coach Kelly is exceedingly pleased with the outpour. But one man of last year’s team has been lost by graduation, leaves of the 112-pound class. All the more experienced men are showing up in fine form according to the coach and of the new man, Leslie ’14 in the heavyweight class and Goodell ’5 and Morse ’16 in the middle-weight class are doing exceptionally well.

The requisitions carried out two weeks ago with several of the New England colleges have resulted in the heads of the various wrestling teams considering the federation of a New England Collegiate Wrestling Association. If this is carried out Tech will have matches with practically all the New England colleges. So for several dates have been made with the clubs around Boston. Coach Kelly is anxious to have as many matches as possible and for this reason would like the men to keep on the lookout for any possible engagements.

The proposed project for putting wrestling on at Field Day has met with serious objections and for this reason and on account of lack of preparation, nothing will be done this fall.

KEROSENE AS MOTOR FUEL

Some remarkable results have been recently attained in the use of kerosene as motor fuel. The chief difficulty which has met previous attempts along this line is the fact that kerosene unlike gasoline, which vaporizes readily upon being sprayed into the air, requires considerable heat for its complete vaporization, a necessary condition for the efficient working of the kerosene motor. Within the past month a car has been built and put into actual working with serious objections, and for this reason and on account of lack of preparation, nothing will be done this fall.

The appearance of a feminine name upon the 1913 ballot is a matter of deeper significance than an outsider might be inclined to suppose. The small number of fair collegians in Tech has always threatened the exact status a matter of doubt, and one of the standard near-smart sayings of the Tech man is that he chose a co-educational college by preference.

WEDNESDAY, OCTOBER 15, 1913

The Tech Show orchestra is now being organized. The Senior–Election, with a large number of candidates, ought to be interesting.

The Tech Show orchestra is now being organized.
REV. MR. J. A. RICHARDS
NEXT T. C. A. SPEAKER

Topic To Be "Spirit of Adventure"—Freshmen Advisors Can Get Handbooks Now.

After having made such an excellent start Thursday noon, the T. C. A. is ready to continue the good work. For next Thursday noon the officers of the T. C. A. have secured the Rev. Mr. James Austin Richards, pastor of the Mt. Vernon Congregational Church.

Mr. Richards has chosen for the subject of his talk, "The Spirit of Adventure," and judging by the topic alone, the second T. C. A. talk of the year promises to be a very interesting one, and it will undoubtedly draw as large a crowd of men as did last Thursday's talk. The attendance last Thursday was very good, and was so large that the T. C. A. feels that an admirable start was made last year. The association earnestly hopes that the students will continue to co-operate with the officers and make every successive meeting a bigger and better one.

The General Secretary, Mr. L. R. Talbot, wishes to announce that the remaining copies of the "Tech Bible," or the little handbook, are ready for distribution among the Freshmen advisors, and that the men entitled to the booklet are requested to call at the T. C. A. office in Eng. B. for them. Any new students who have not yet received copies of the book are also reminded that by calling at the office of the Association, they can also obtain the much desired "bible."

Have you seen the progress during the summer on the New Site?

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Disraeli

STUDENTS PATRONIZE OUR ADVERTISERS

ENGINEERING AND SCIENTIFIC NOTES

The theory of the noise of thunder for a long time in vortex dynamics scientists is that the conception and the violent sound waves were caused by the noise, which is produced from the instantaneous rushing-back of the air into the temporary vacuum produced by the passage of the electric spark. If such is the only cause, the intensity of the noise, calculated from energy principles, seems excessively large. To overcome this difficulty a new theory has been proposed. It is that the thunder is the result of the intense heating of the gases of the atmosphere, especially of the water vapor, so that in reality a violent steam explosion is produced along the path of electric discharge giving rise to waves of great intensity. Experimental evidence which tends to support this theory has been ingeniously carried on by Thomson. An electric spark of a certain length, say three inches, was passed between the familiar discharge balls of the induction coil and the intensity of the sound measured with suitable instruments. The spark balls were then covered with water-soaked cotton and the spark again passed, which was accompanied with a more intense noise than formerly, showing that this noise is probably produced by an explosion as well as by a rushing back of the atmosphere. The continued "rolling" of thunder is, of course, caused by the echo from surrounding hills, etc. The writer was surprised to find that far out to sea, where such reflecting walls are to a large degree absent, the thunder usually consists of but a single "clap" to accompany each flash of lightning.

The Geological Survey is making a study of the volume and character of the flow of streams at the following gaging stations: Connecticut River at Sunderland; Deerfield River at Hoosac Tunnel, Deerfield River near Charlestown, Deerfield River at Shiloh, Deerfield River at Holyoke; Housatonic River at Great Barrington, Queechee; Connecticut River at Enfield, Swift River at West Brimfield, Swift River at West Stockbridge, Farmington River at West Stockbridge, Farmington River at West Warren, Ware River at Ware, West Branch of Farmington River at East Warren, Ware River at Gales Ferry, Westfield River (Middle Branch) at Goss Heights, and Westfield River at Knightville. This work is being done in cooperation with the State. At these gaging stations the height or stage of the rivers is determined in an analytical way. The writer was surprised to find that far out to sea, where such reflecting walls are to a large degree absent, the thunder usually consists of but a single "clap" to accompany each flash of lightning.

Tables For Steel Detailing And Designing

By J. A. Arberhouse, C. E., A. R. C. E. K, H. P.

These Tables are for the draftsman and designer in steel detailing compiled from the latest and best data relating to stream flow, velocity, temperature, and measurements of the discharge of the streams are made by engineers of the Survey. From these data the quantity of water flowing past the stations is determined. In Massachusetts these hydrographic data are of use principally in the design, construction, and maintenance of power plants and in studies of municipal water supplies, though all these relating to stream flow are valuable for general statistical and comparative purposes.

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